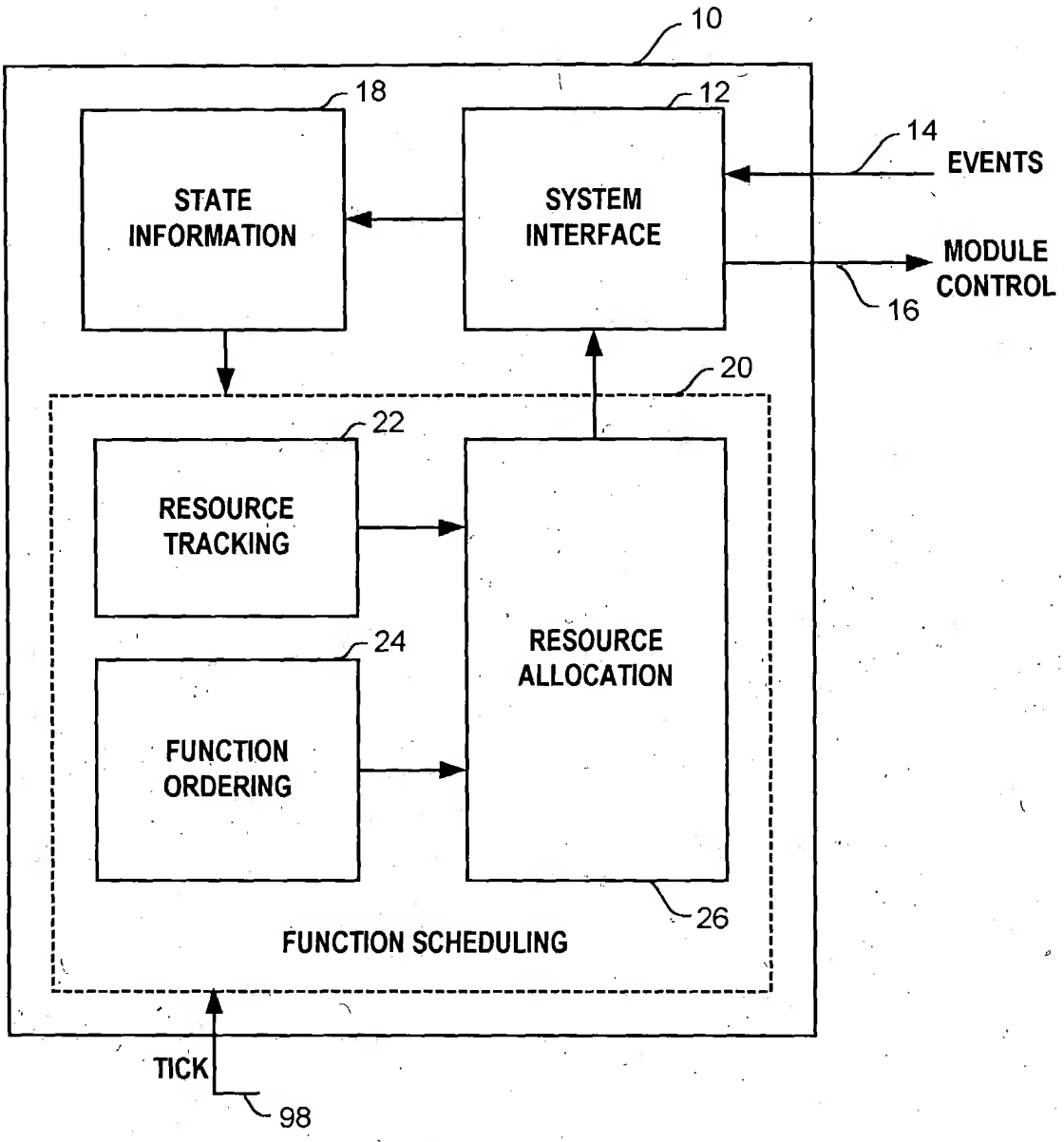

10
18
12
14
EVENTS
STATE INFORMATION
SYSTEM INTERFACE
MODULE CONTROL
16
20
22
RESOURCE TRACKING
24
RESOURCE ALLOCATION
FUNCTION ORDERING
26
FUNCTION SCHEDULING
TICK
98

FIGURE 1

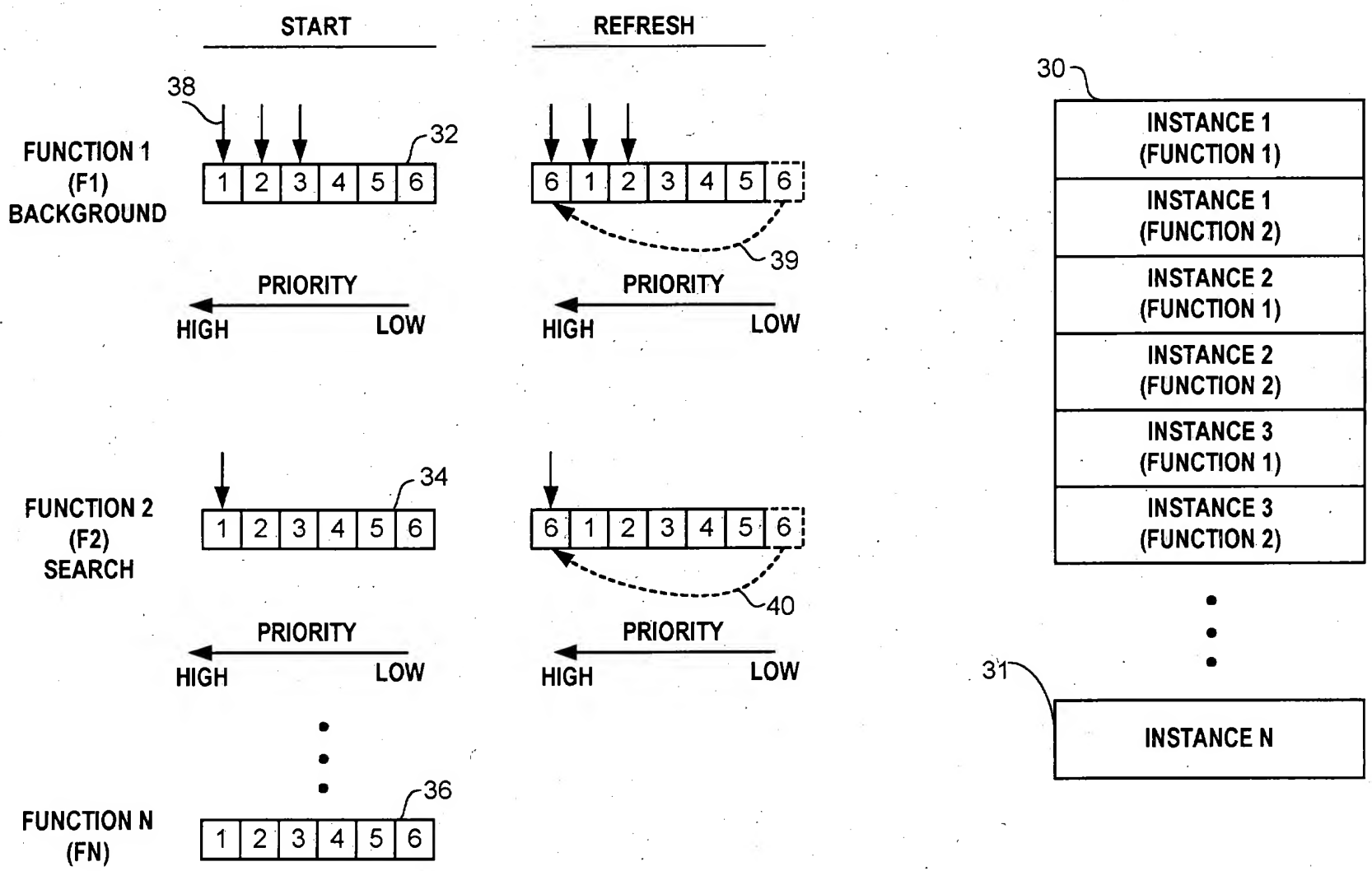

START
REFRESH
38
32
39
FUNCTION 1
(F1)
BACKGROUND
1 2 3 4 5 6
6 1 2 3 4 5 6
PRIORITY
HIGH
LOW
34
40
FUNCTION 2
(F2)
SEARCH
36
FUNCTION N
(FN)
30
INSTANCE 1
(FUNCTION 1)
INSTANCE 1
(FUNCTION 2)
INSTANCE 2
(FUNCTION 1)
INSTANCE 2
(FUNCTION 2)
INSTANCE 3
(FUNCTION 1)
INSTANCE 3
(FUNCTION 2)
31
INSTANCE N

FIGURE 2

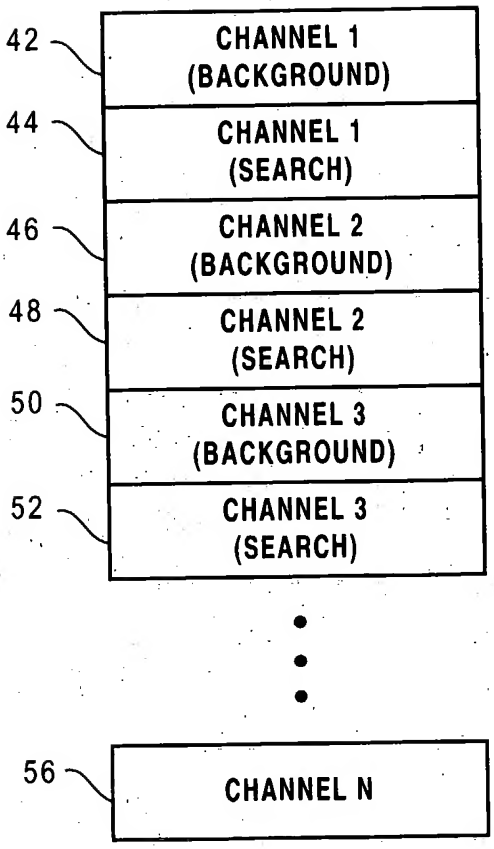

42
CHANNEL 1
(BACKGROUND)
44
CHANNEL 1
(SEARCH)
46
CHANNEL 2
(BACKGROUND)
48
CHANNEL 2
(SEARCH)
50
CHANNEL 3
(BACKGROUND)
52
CHANNEL 3
(SEARCH)
56
CHANNEL N

FIGURE 3

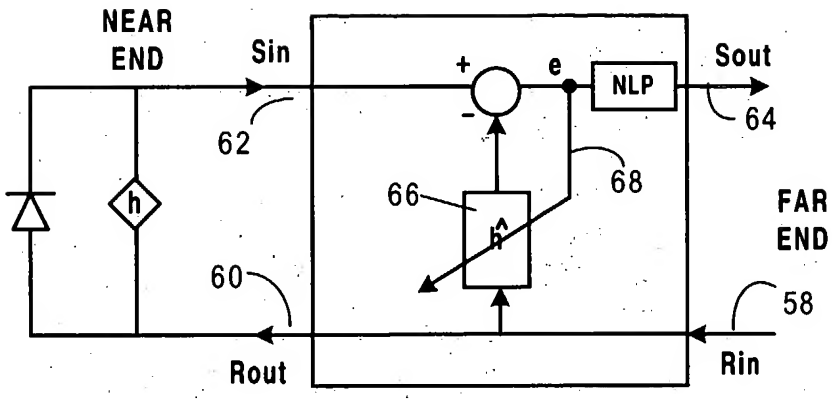


FIGURE 4
PRIOR ART

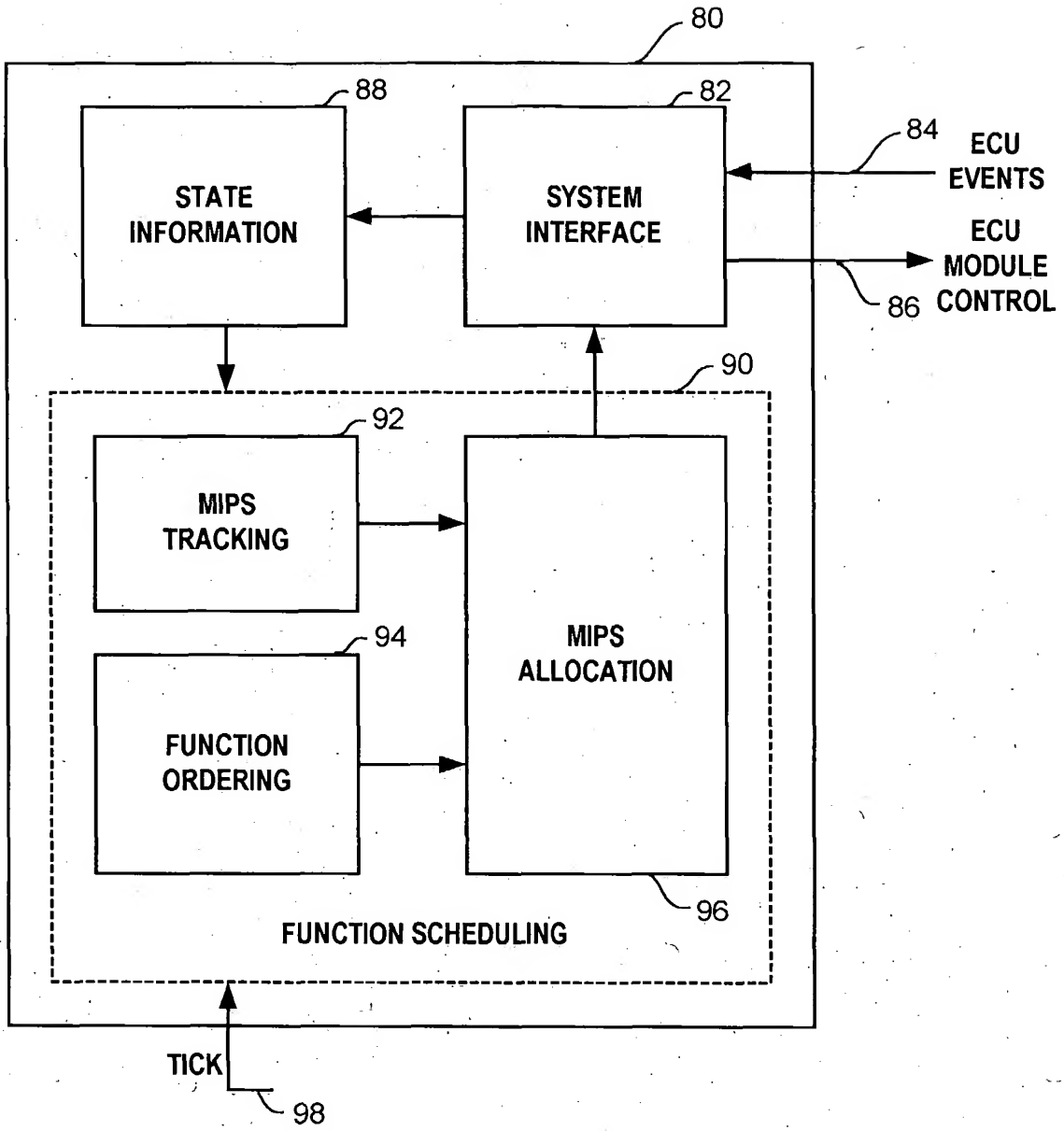
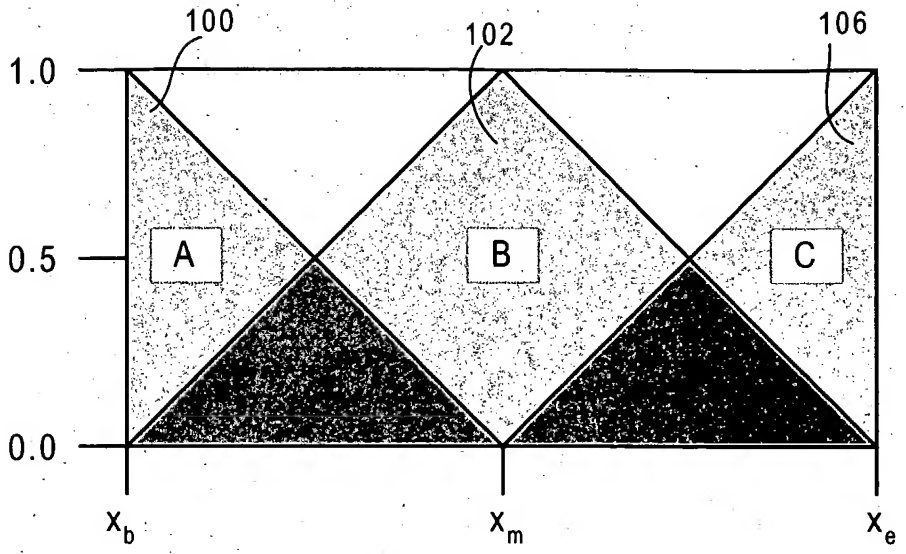
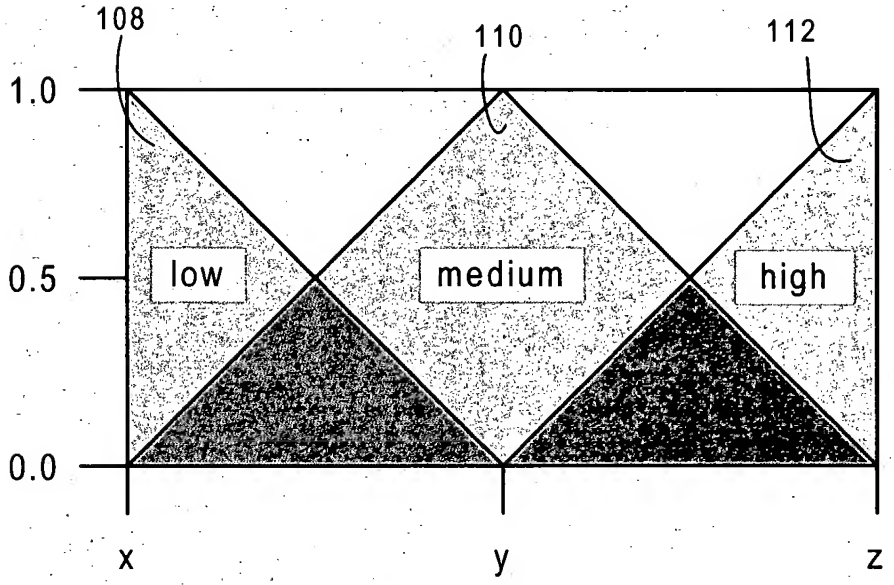

80
88
82
84
ECU
EVENTS
STATE
INFORMATION
SYSTEM
INTERFACE
ECU
MODULE
CONTROL
86
90
92
MIPS
TRACKING
94
MIPS
ALLOCATION
FUNCTION
ORDERING
96
FUNCTION SCHEDULING
TICK
98

FIGURE 5



General SPFIS input variable membership functions

FIGURE 6



ACOM in dB

FIGURE 7

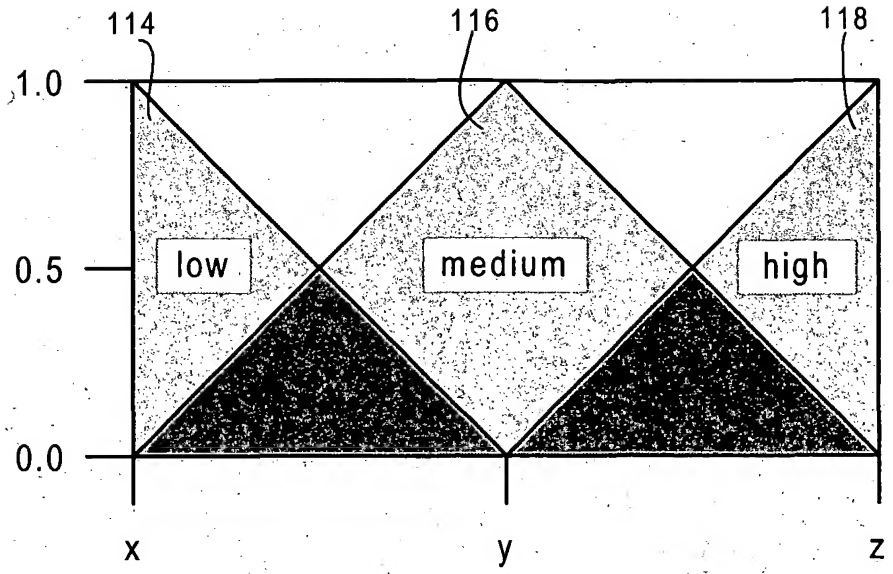


FIGURE 8

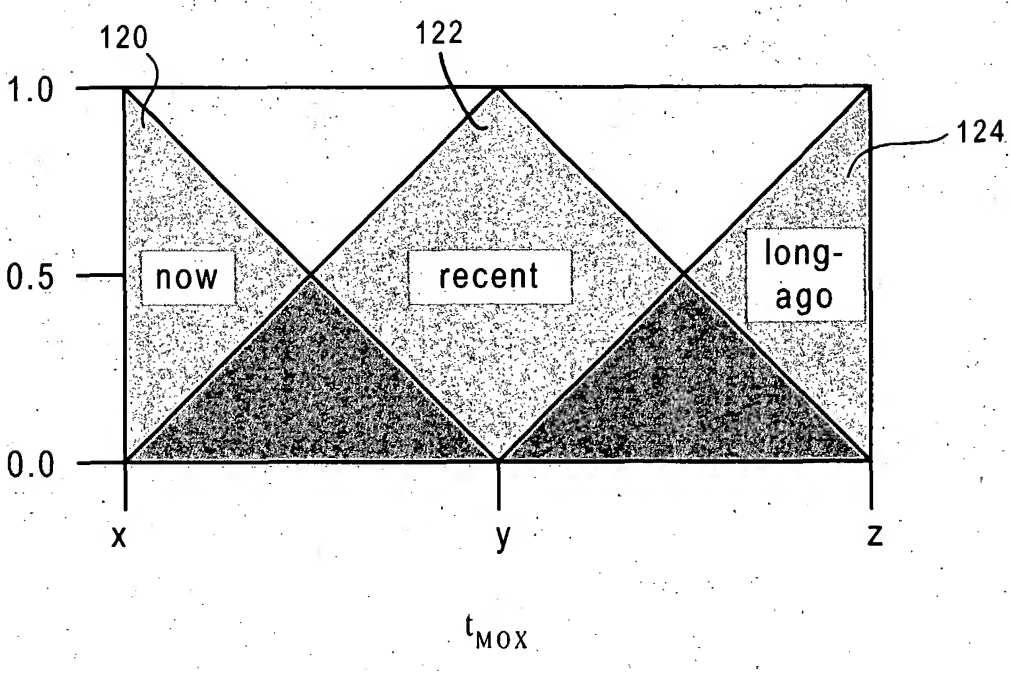


FIGURE 9

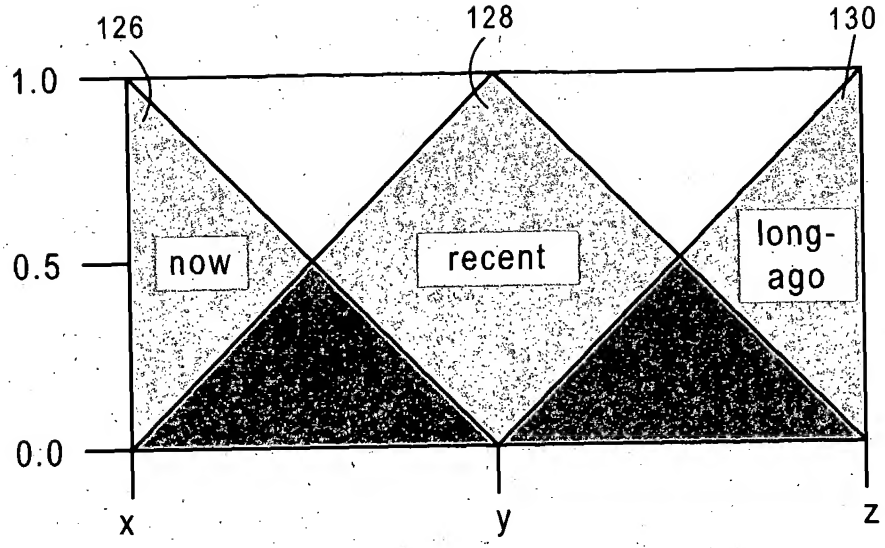


FIGURE 10

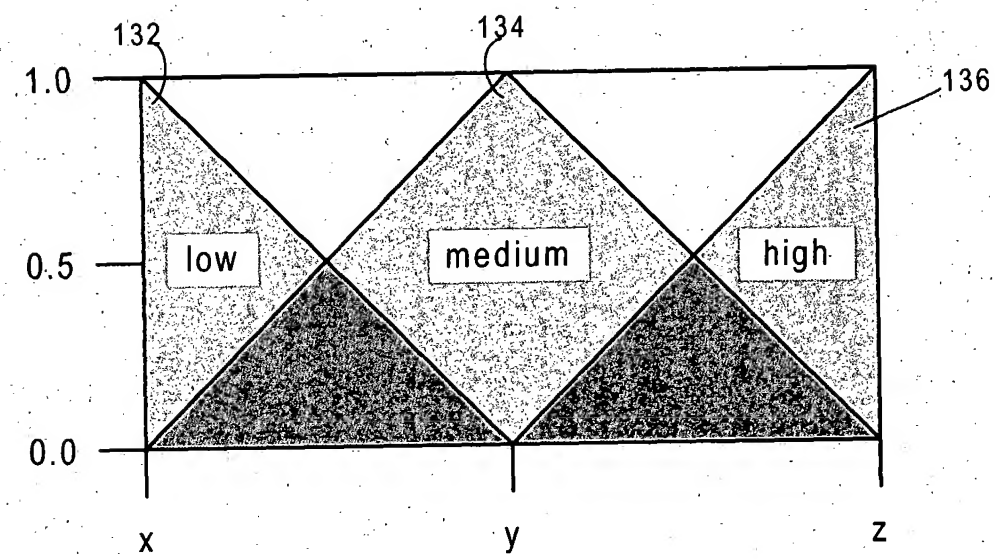


FIGURE 11

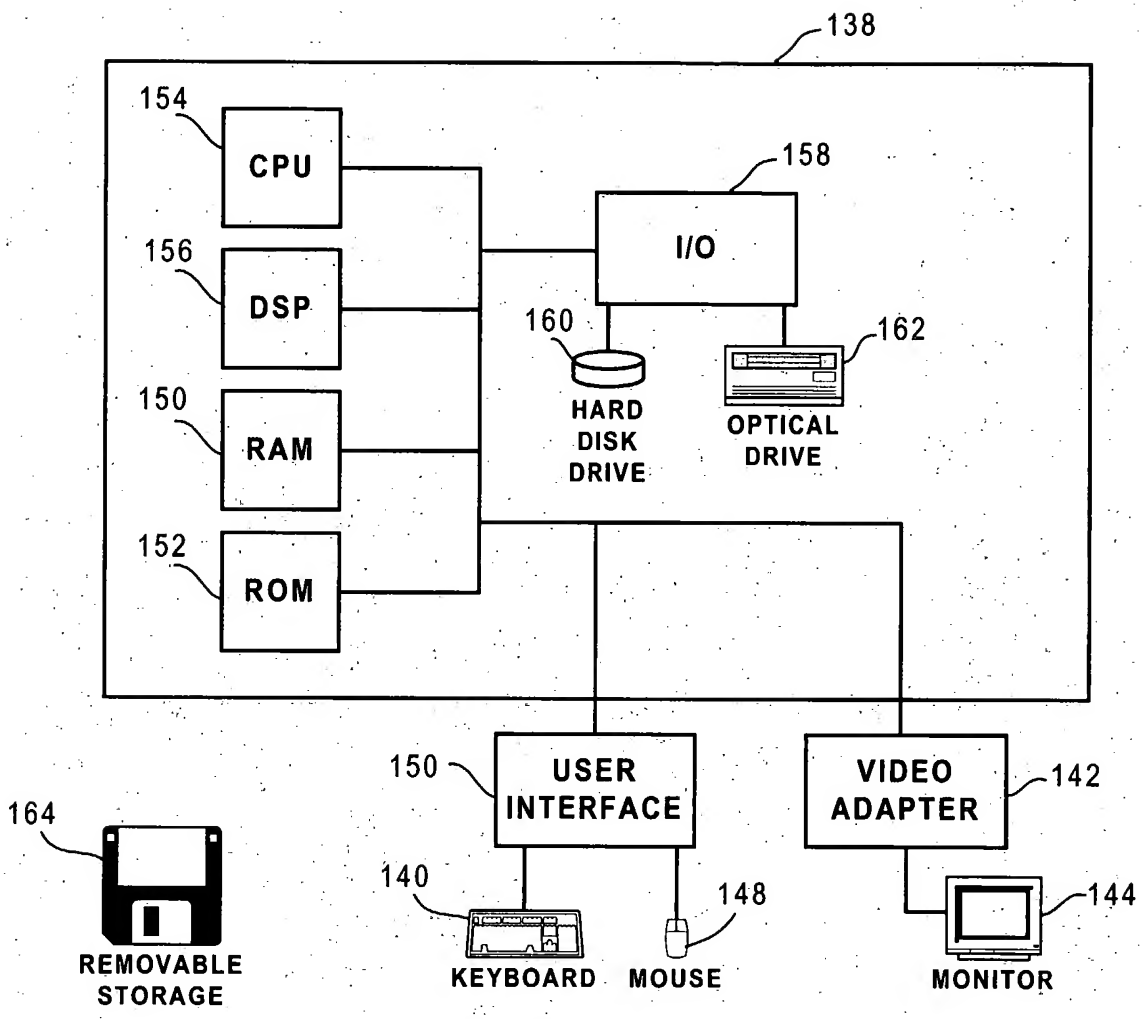

138
154
CPU
158
I/O
156
DSP
160
162
HARD DISK DRIVE
OPTICAL DRIVE
150
RAM
152
ROM
150
USER INTERFACE
VIDEO ADAPTER
142
164
140
148
144
REMOVABLE STORAGE
KEYBOARD
MOUSE
MONITOR

FIGURE 12